

#### ABSTRACT

[0031] A bus routing topology for a bus system in which every pair of signal lines are provided with shielding is provided, thereby effectively limiting signal cross-talk to only one signal pair while minimizing the number of pins required on a connector. Further, if these signals are a differential signal pair, then the coupling can be beneficial from the standpoint of signal integrity. By shielding only every pair of signal lines, the number of connector pins is significantly reduced, thus reducing the size and cost of the connector and module on which the connector is provided.